



Phone 563.556.8392
Toll-free 800.678.6565
Fax 563.556.5321
4131 Westmark Drive
Dubuque, IA 52002-2627
www.eaglepoint.com

Eagle Point Solution to a Frequently Asked Question

How to Enter Field Codes into a Collector

Summary:

This document explains Eagle Point surveying Field Code libraries and the format for entering the Field Codes into a collector.

Product: Eagle Point Software™ 2001

Release: 2001 Q4 or 1.4.0 and greater

Platform: All

Related documents:

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The following is the format for entering Field Codes into a collector, definitions and examples:

(Field Code)(Line designator)(Line name)(Special designator)(<<space>>)(Description)

Definitions for Entering Field Codes Into a Collector

Field Code	One of the user-defined codes defined in the Node (Field Code) Library in Eagle Point. 10 characters maximum.
Line designator	This must be present if the point taken generates line work. Default value is a period (.). Some Field Codes have automatic linework which means that this linework designator and line name are not needed.
Line name	Enter one of the pre-defined line names that are in the Eagle Point Line Work file. The line name will be connected to each occurrence in the job file that has the same line name.
Special designator(s)	Tells Eagle Point to make a curve, stop the line, close the line back to the beginning, etc.
<<space>>	Required if a description is to be entered.
Description	Used to describe the point taken. Data Collection places this description into the CAD graphic next to the point. This description overrides or is combined with the Node (Field Code) Library description. NOTE: The only time a space should be used is before entering the description or within a description.

EXAMPLE:

FC.FC- Property Line Fence

FC -----	Field Code
. -----	Line Designator
FC-----	Line Name
- -----	Special Designator (Curve)
<<Space>>-----	Space
Property Line Fence -----	Description

Field Entry Examples

The following examples use the default designators for line work:

Line Designators - System Defaults

<u>Type Designator</u>	<u>Designator</u>	<u>SDR 33 Keys</u>
Line	. (period)	.

Special Designators - System Defaults

Curve	- (hyphen)	Func T
Close line	+ (plus)	Func S
Join last shot	* (asterisk)	Func Y
Bearing close	# (pound sign)	Func 3
Cross-section	= (equal sign)	Func Enter
Stop line	! (exclamation point)	Func 1

Description Designators -System Defaults

Insert description	* (asterisk)	Func Y
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Line Work Examples

FC.FC Property Line	Places the node symbol FC and starts or connects to the linework named FC with a line(.), and overrides the default label for FC with "Property Line".
FC.FC!	Places the node symbol FC and ends the line named FC and uses the default description for Field Code "FC".
DTREE	This entry places symbol DTREE and uses the default description "Dtree". No line work is produced.
FL Main	Node Symbol = FL : "Main" is label FL is auto linework used
FL.FL1	Node Symbol = FL : "FL" is label FL auto linework &FL1 linework
FL.FL1!	Node Symbol = FL : "FL" is label FL1 linework ends, FL auto linework continues
BLD.BLD1+	Node Symbol = BLD : "BLD" is label BLD1 linework closes to the start of the "BLD1" linework

Here are some points to remember regarding Field Codes and symbols:

1. If you enter a Field Code for a shot and follow it with a description, Data Collection places the description you entered into the CAD graphic next to the symbol, i.e., CMP 36"Diam would use the label *36"Diam*. If you don't enter a description, Data Collection uses the label it finds in the Node (Field Code) Library, i.e., CMP would use the label *CMP*.
2. If you don't enter a Field Code for a point, Data Collection uses the default Field Code set in the Reduction Settings in Data Collection.
3. Data Collection assumes that anything alphanumeric less than 10 characters at the front of the description field is a Field Code. If it is not in the Node (Field Code) Library, Data Collection uses the default Field Code in the settings and displays the message "Field Code_ not found at point #" in the Warnings dialog box after the job is reduced.

The Iowa Field Code library default is M (Misc). A Field Code entry of Hole would use the node associated with Misc and give it a label *Hole*.

Submitted by Norman Friedrich.